

**BLAKELY
SOKOLOFF
TAYLOR &
ZAFMAN LLP**

3200 Park Center Drive, Suite 700
Costa Mesa, California 92626-7149
Telephone: (714) 557-3800
Facsimile: (714) 557-3347

#4
Petro
4/19/02

FACSIMILE TRANSMITTAL SHEET

Deliver To: Attn: Licensing Review
Company: U.S. Patent and Trademark Office
Facsimile: (703) 305-6384
From: Roger W. Blakely, Jr.
Date: March 18, 2002
Number of Pages: 44 (Including Cover Sheet)
Operator: Jessica Clark
Our Reference: 004711.P006

SUBJECT: U.S. Patent Application No. 09/894,344

REMARKS: On December 10, 2001 we mailed a Petition for Retroactive Foreign Filing License, which has apparently never been received by the Patent Office. A copy of the complete package as mailed follows.

We respectfully request that the Petition be filed on this date and the fee charged to our Deposit Account 02-2666.

Please contact me if there are any questions.

CONFIDENTIALITY NOTE: The documents accompanying this facsimile transmission contain information from the law firm of Blakely, Sokoloff, Taylor & Zafman which is confidential or privileged. The information is intended to be for the use of the individual or entity named on this transmission sheet. If you are not the intended recipient, be aware that any disclosure, copying, distribution or use of the contents of this faxed information is prohibited. If you have received this facsimile in error, please notify us by telephone immediately so that we can arrange for the retrieval of the original documents at no cost to you.

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FACSIMILE TRANSMITTAL SHEET

Deliver To:	Attn: Joyce Brown
Company:	U.S. Patent and Trademark Office
Facsimile:	(703) 305-7658
From:	Jessica Clark
Date:	April 19, 2002
Number of Pages:	45 (Including Cover Sheet)
Operator:	Jessica Clark
Our Reference:	004711.P006

SUBJECT:	U.S. Patent Application No. 09/894,344
REMARKS:	<p>Per our telephone conversation, following is a copy of the Petition of Retroactive License for the case referenced above, as originally mailed on December 10, 2001 and subsequently faxed on March 18, 2002.</p> <p>Thank you so much for your assistance in this matter.</p>

CONFIDENTIALITY NOTE: The documents accompanying this facsimile transmission contain information from the law firm of Blakely, Sokoloff, Taylor & Zafman which is confidential or privileged. The information is intended to be for the use of the individual or entity named on this transmission sheet. If you are not the intended recipient, be aware that any disclosure, copying, distribution or use of the contents of this faxed information is prohibited. If you have received this facsimile in error, please notify us by telephone immediately so that we can arrange for the retrieval of the original documents at no cost to you.

If you do not receive all the pages, or if there is any difficulty in receiving, please call: (714) 557-3800 and ask for the operator named above.

Application No.: 09/894,344 Filing Date: 06/28/01 BSTZ Docket #: 4711P008 Atty/Sec: RWB/jc
Date Mailed: 12/10/2001 Docket Due Date(s): Client: Paradigm Wireless Systems Inc.
Title METHOD AND GEOLOCATION DATA INTERPOLATION AND COMPRESSION

Inventor(s) Nam, Chen, Nordrup

The following has been received in the U.S. Patent & Trademark Office on the date stamped hereon:

- | | |
|---|--|
| <input type="checkbox"/> Amendment: (___ pgs) | <input type="checkbox"/> Information Disclosure Statement & PTO/SB/08 (___ pgs) |
| <input type="checkbox"/> Appeal Brief & two copies (___ pgs) | <input type="checkbox"/> Issue Fee Transmittal (original & copy) |
| <input type="checkbox"/> Application:
(___ pages w/ cover & abstract) | <input type="checkbox"/> Notice of Appeal |
| <input type="checkbox"/> Assignment & Cover Sheet (___ pgs) | <input checked="" type="checkbox"/> Petition for: <u>Retroactive License (3</u> |
| <input checked="" type="checkbox"/> Certificate of Mailing | <input type="checkbox"/> Request for Continued Examination (RCE) |
| <input type="checkbox"/> Continued Prosecution Application (CPA) | <input type="checkbox"/> Reply Brief (___ pgs) |
| <input type="checkbox"/> Declaration & POA (___ pgs) | <input type="checkbox"/> Request and Certification Under 35 U.S.C. 122(b)(2)(B)(i) |
| <input type="checkbox"/> Drawings: ___ sheets, ___ figures | <input type="checkbox"/> Request to Rescind Previous Nonpublication Request |
| <input type="checkbox"/> Express Mail No: ___ | <input type="checkbox"/> Response to Notice of Missing Parts & Formalities Letter |
| <input type="checkbox"/> Extension of Time: ___ | <input type="checkbox"/> Terminal Disclaimer |
| <input checked="" type="checkbox"/> Fee Transmittal (original & copy) | <input type="checkbox"/> Transmittal of Formal Drawings |
| <input checked="" type="checkbox"/> Other <u>Statement in Support of Petition for Retroactive</u> | <input type="checkbox"/> Transmittal of Publication Fee Due |
| <u>License (2 pgs); Exhibits</u> | <input checked="" type="checkbox"/> Transmittal Letter |
| | <input checked="" type="checkbox"/> Check No. 12792 In the Amount of \$130.00 |
| | <input type="checkbox"/> Check No. In the Amount of |

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BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN, LLP

3200 PARK CENTER DRIVE, SUITE 700
COSTA MESA, CA 92626



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90-2287
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Date 12/10/01

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TO
THE
ORDER
OF

Director of the United States Patent
and Trademark Office

Roger W. Blakely
AUTHORIZED SIGNATURE

⑈012792⑈ ⑈121122676⑈ ⑈16430128359⑈

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DETACH AND RETAIN THIS STATEMENT
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IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

AMOUNT

\$ 130.00

12792

DATE

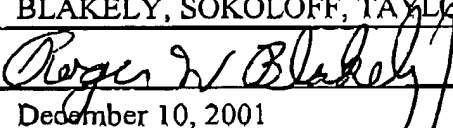
DESCRIPTION

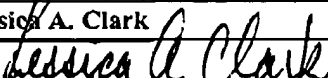
12/10/2001 U.S. Patent and Trademark Office patent petition fee for
retroactive foreign filing license for METHOD AND GEO-LOCATION
DATA INTERPOLATION AND COMPRESSION
Application No. 09/894,344
Filed June 28, 2001
Inventors: KI Y. Nam et al.
004711.P006 RWB/jc
Paradigm Wireless Systems, Inc.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application No.	09/894,344
		Filing Date	June 28, 2001
		First Named Inventor	Ki Y. Nam
		Group Art Unit	
		Examiner Name	
Total Number of Pages in This Submission	41	Attorney Docket Number	4711P006

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition <input type="checkbox"/> To Convert a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> Request for Refund	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below): <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> Petition for Retroactive License; Verified Statement in Support of Petition for Retroactive License; Exhibits </div>
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Roger W. Blakely, Jr., Reg. No. 25,831 BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
Signature	
Date	December 10, 2001

CERTIFICATE OF MAILING/TRANSMISSION			
I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class mail with sufficient postage in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on:			
December 10, 2001			
Typed or printed name	Jessica A. Clark	Date	December 10, 2001
Signature			

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

FEE TRANSMITTAL for FY 2000

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$) **130.00**

Complete if Known

Application No.	09/894,344
Filing Date	June 28, 2001
First Named Inventor	Ki Y. Nam
Examiner Name	
Group/Art Unit	
Attorney Docket No.	4711P006

METHOD OF PAYMENT (check one)

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:
- Deposit Account Number: **02-2666**
- Deposit Account Name: **Blakely, Sokoloff, Taylor & Zafman LLP**
- ☒ Charge Any Additional Fee(s) Required Under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.
- ☒ Applicant claims small entity status. See 37 CFR 1.27.

2. ☒ Payment Enclosed:
- ☒ Check ☐ Credit card ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1) (\$)

2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below
Independent Claims	**	X
Multiple Dependent	**	X

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple Dependent claim, if not paid
109	84	209	42	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

***or number previously paid, if greater. For Reissues, see below*

FEE CALCULATION (continued)

3. ADDITIONAL FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	130.00
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
Other fee (specify) _____					
Other fee (specify) _____					
* Reduced by Basic Filing Fee Paid					
SUBTOTAL (3) (\$) 130.00					

SUBMITTED BY

Name (Print/Type) **Roger W. Blakely, Jr.**

Signature *Roger W. Blakely, Jr.*

Registration No. (Attorney/Agent) **25,831**

Telephone **(714) 557-3800**

Date **12/10/01**

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2039.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

FEE TRANSMITTAL for FY 2000

Patent fees are subject to annual revision

TOTAL AMOUNT OF PAYMENT (\$) **130.00**

Complete if Known

Application No.	09/894,344
Filing Date	June 28, 2001
First Named Inventor	Ki Y. Nam
Examiner Name	
Group/Art Unit	
Attorney Docket No.	4711P006

METHOD OF PAYMENT (check one)

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Deposit Account Number: **02-2666**
Deposit Account Name: **Blakely, Sokoloff, Taylor & Zafman LLP**

☒ Charge Any Additional Fee(s) Required Under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.

☒ Applicant claims small entity status. See 37 CFR 1.27.

2. ☒ Payment Enclosed:

☒ Check ☐ Credit card ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
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107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1) (\$)

2. EXTRA CLAIM FEES

Total Claims: Extra Claims: Fee from below:
Independent Claims: Multiple Dependent:

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
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110	18	210	9	**Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2) (\$)

***or number previously paid, if greater. For Reissues, see below*

FEE CALCULATION (continued)

3. ADDITIONAL FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
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127	50	227	25	Surcharge - late provisional filing fee or cover sheet.	
139	130	139	130	Non-English specification	
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141	1,280	241	640	Petition to revive - unintentional	
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149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
Other fee (specify) _____					
Other fee (specify) _____					
* Reduced by Basic Filing Fee Paid					
SUBTOTAL (3) (\$) 130.00					

SUBMITTED BY

Name (Print/Type): **Roger W. Blakely, Jr.**

Registration No. (Attorney/Agent): **25,831**

Telephone: **(714) 557-3800**

Signature: *Roger W. Blakely, Jr.*

Date: **12/10/01**

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2039.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Ki Y. Nam et al

Application No.: 09/894,344

Filed: June 28, 2001

For: METHOD AND GEO-LOCATION DATA
INTERPOLATION AND COMPRESSION

PETITION FOR RETROACTIVE LICENSE (37 C.F.R. §5.25)

Attn: Licensing and Review
Assistant Commissioner for Patents
Washington, DC 20231-9998

Sir:

It is respectfully requested that this petition for license for foreign filing be granted retroactively under the provisions of 37 C.F.R. §5.25.

1. Previous License

Attached hereto as Exhibit A is a copy of the foreign filing license issued on the corresponding provisional application before the export. Also attached hereto, as Exhibit B, is a copy of the foreign filing license issued on the present application after the export.

2. Material Filed Abroad Without a License

Attached hereto as Exhibit C is a copy of the material that was filed abroad without a license for foreign filing.

3. Identification of Inventors, Title of Intention and Details of Corresponding U.S. Application

Inventors: Ki Y. Nam, Gallin C. Chen, William J. Northrup

Title: Method and Geo-Location Data Interpolation and Compression

U.S. Application No.: 09/894,344

Filing Date: June 28, 2001

Earlier U.S. Provisional Application No.: 60/215,740

Provisional Filing Date: June 28, 2000

4. Foreign Countries and Dates of Filing of Material for which Retroactive License is Requested

Foreign Country	Date
Argentina	July 2, 2001

5. Verified Statement

Attached hereto as Exhibit D is the verified statement of Roger W. Blakely, Jr. which confirms that, in accordance with 37 C.F.R. §5.25(a)(3)(i)-(iii),

a. the subject matter in question was not under a secrecy order at the time it was filed abroad and is not currently under a secrecy order;

b. the license is being diligently sought after discovery of the proscribed foreign filing; and

c. an explanation of why the material was filed abroad through error and without deceptive intent without the required license under §5.11 first having been obtained.

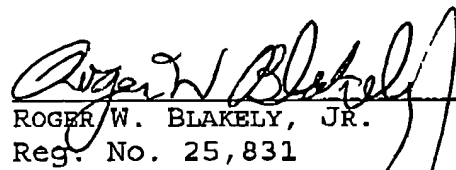
6. Fee

The fee for this petition for retroactive license is paid by a check in the amount of \$130.00 enclosed herewith. Please charge any additional fees required by this paper or credit any overpayment to Deposit Account No. 02-2666. A duplicate of the Fee Transmittal is enclosed for deposit account purposes.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

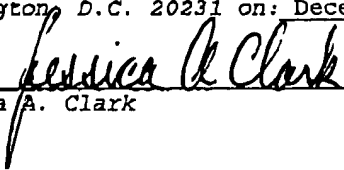
Dated: December 10, 2001


ROGER W. BLAKELY, JR.
Reg. No. 25,831

12400 Wilshire Boulevard,
Seventh Floor
Los Angeles, California 90025
(714) 557-3800

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Attn: Licensing and Review, Assistant Commissioner for Patents, Washington, D.C. 20231 on: December 10, 2001.


Jessica A. Clark

12/10/2001
Date

EXHIBIT A

FILING RECEIPT



OC000000005345346

UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark OfficeAddress: ASSISTANT SECRETARY AND
COMMISSIONER OF PATENT AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
60/215,740	06/29/2000		75	004711.P006Z	1		

RWB

Roger W Blakely Jr
Blakely Sokoloff Taylor & Zafman LLP
12400 Wilshire Blvd
Seventh Floor
Los Angeles, CA 90025-1026

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SEP 12 2000

BLAKELY, JR.

JULIAN

Date Mailed: 08/23/2000

Receipt is acknowledged of this provisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Ki Y. Nam, Newport Beach, CA ;
Gallin C. Chen, Huntington Beach, CA ;
William J. Northrup, Oceanside, CA ;

Continuing Data as Claimed by Applicant

Foreign Applications

If Required, Foreign Filing License Granted 08/22/2000

** SMALL ENTITY **

Title

Method and geo-location data interpolation and compression

Preliminary Class

Data entry by : ROBINSON, YOLANDA

Team : OIPE

Date: 08/23/2000

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BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP
COSTA MESA

ENTERED

SEP 10 2000

STATUS DBA

APR. 19. 2002 12:57PM

BST&Z - CM

NO. 1398 P. 12

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 36 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

PLEASE NOTE the following information about the Filing Receipt:

- The articles such as "a," "an" and "the" are not included as the first words in the title of an application. They are considered to be unnecessary to the understanding of the title.
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Ki Y. Nam et al

Application No.: 09/894,344

Filed: June 28, 2001

For: METHOD AND GEO-LOCATION DATA
INTERPOLATION AND COMPRESSION

VERIFIED STATEMENT IN SUPPORT OF
PETITION FOR RETROACTIVE LICENSE (37 C.F.R. §5.25)

Attn: Licensing and Review
Assistant Commissioner for Patents
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I, Roger W. Blakely, Jr., hereby verify, in accordance with
37 C.F.R. §5.25(a)(3)(i)-(iii), that:

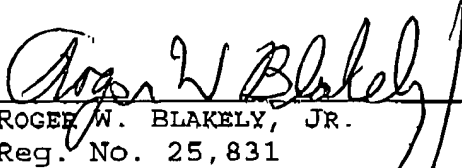
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b. the license is being diligently sought after discovery
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c. the subject application was based on a provisional
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Dated: December 10, 2001

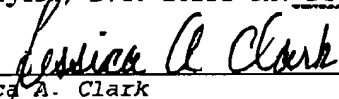


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Date 12/10/2001



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RWB
Paradigm Wireless Sys.

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/894,344	06/28/2001	2681	507	4711P006	4	28	5

CONFIRMATION NO. 6453

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AUG 23 2001

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STATUS DB-LA

AUG 24 2001

Domestic Priority data as claimed by applicant

THIS APPLN CLAIMS BENEFIT OF 60/215,740 06/29/2000

Foreign Applications

If Required, Foreign Filing License Granted 08/17/2001

Projected Publication Date: 01/03/2002

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY **

Title

Method for geo-location interpolation and compression

Preliminary Class

455

Data entry by : KIBERT, MULUEMEBET

Team : OIPE

Date: 08/17/2001

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 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EXHIBIT B

2 establishing a plurality of references, each having reference positional data and an
3 identification (ID) code;
4 determining the geographical location (geo-location) of a mobile unit operating in a
5 region;
6 receiving a compressed geo-location data of the mobile unit and a reference data of
7 a reference covering said region; and
8 recovering the geo-location of the mobile unit by comparing the compressed geo-
9 location data against a reference positional data, said reference positional data obtained
10 from the received reference data.

1 7. A method of claim 6, wherein determining the geo-location of the mobile
2 unit using a Global Position System.

1 8. A method of claim 6, wherein the compressed geo-location data is in units of
2 latitude and longitude.

1 9. A method of claim 8, wherein the compressed geo-location data includes at
2 most one least significant degree digit of the latitude and at most two least significant
3 degree digits of the longitude.

1 10. A method of claim 9, wherein recovering the most significant degree digit of
2 the latitude and at least the most significant degree digit of the longitude.

1 11. A cellular network comprising:
2 a plurality of cellular systems, each having reference positional data;
3 a mobile unit within a region covered by a cellular system, the mobile unit capable
4 of determining the geographical location (geo-location) of the mobile unit; and

an application service provider (ASP) to receive compressed geo-location data of the mobile unit and to determine the geo-location of the mobile unit by comparing the compressed geo-location data against the reference positional data of the reference covering said region.

12. A network of claim 11, wherein the mobile unit determines the geo-location using a Global Position System.

13. A network of claim 11, wherein the compressed geo-location data is in units of latitude and longitude.

14. A network of claim 13, wherein the compressed geo-location data includes at most one least significant degree digit of the latitude and at most two least significant degree digits of the longitude.

15. A network of claim 14, wherein the ASP determines the most significant degree digit of the latitude and at least the most significant degree digit of the longitude.

16. A method for communicating geographical location in a cellular network comprising:

determining the geographical location (geo-location) of a mobile unit operating in a region;

receiving a compressed geo-location data of the mobile unit and an identification code corresponding to a cellular system covering said region;

recovering the geo-location of the mobile unit by comparing the compressed geo-location data against a reference positional data, said reference positional data obtained from the received identification code.

1 17. A method of claim 16, wherein the identification code is a system
2 identification code of the cellular system covering said region.

1 18. A method of claim 16, wherein the identification code is one of a cell cite, a
2 point code of a home location register, a point code of a visiting location register or a point
3 code of a mobile switch center.

1 19. A method of claim 16, wherein determining the geo-location of the mobile
2 unit using a Global Position System.

1 20. A method of claim 16, wherein the compressed geo-location data is in units
2 of latitude and longitude.

1 21. A method of claim 20, wherein the compressed geo-location data includes
2 one least significant degree digit of the latitude and at most two least significant degree
3 digits of the longitude.

1 22. A method of claim 21, wherein recovering the most significant degree digit
2 of the latitude and at least the most significant degree digit of the longitude.

1 23. A mobile asset tracking system comprising:
2 a plurality of geographical references, each having reference positional data;
3 a mobile asset installed with a mobile unit operating in a region covered by a
4 geographical reference, the mobile unit to determine the geographical location (geo-
5 location) of the mobile asset and to report a compressed geo-location data of the mobile
6 asset; and

7 a locator to receive the compressed geo-location data of the mobile unit and to
8 determine the geo-location of the mobile asset by comparing the compressed geo-location
9 data against a reference positional data of the reference covering said region.

1 24. A system of claim 23, wherein the mobile unit determines the geo-location
2 using a Global Position System.

1 25. A system of claim 23, wherein the compressed geo-location data is in units
2 of latitude and longitude.

1 26. A system of claim 25, wherein the compressed geo-location data includes at
2 most one least significant degree digit of the latitude and at most two least significant
3 degree digits of the longitude.

1 27. A system of claim 26, wherein the locator determines the most significant
2 degree digit of the latitude and at least the most significant degree digit of the longitude.

1 28. A system of claim 23, wherein the compressed geo-location data is
2 transmitted through a cellular network.

ABSTRACT

A system and method for efficiently transmitting geographical location data of mobile units is disclosed. The invention allows less than the complete geographical location data to be transmitted and reported to a locator. Using fixed geographical references, the locator then interpolates the complete geographical location of mobile units from the reported data.

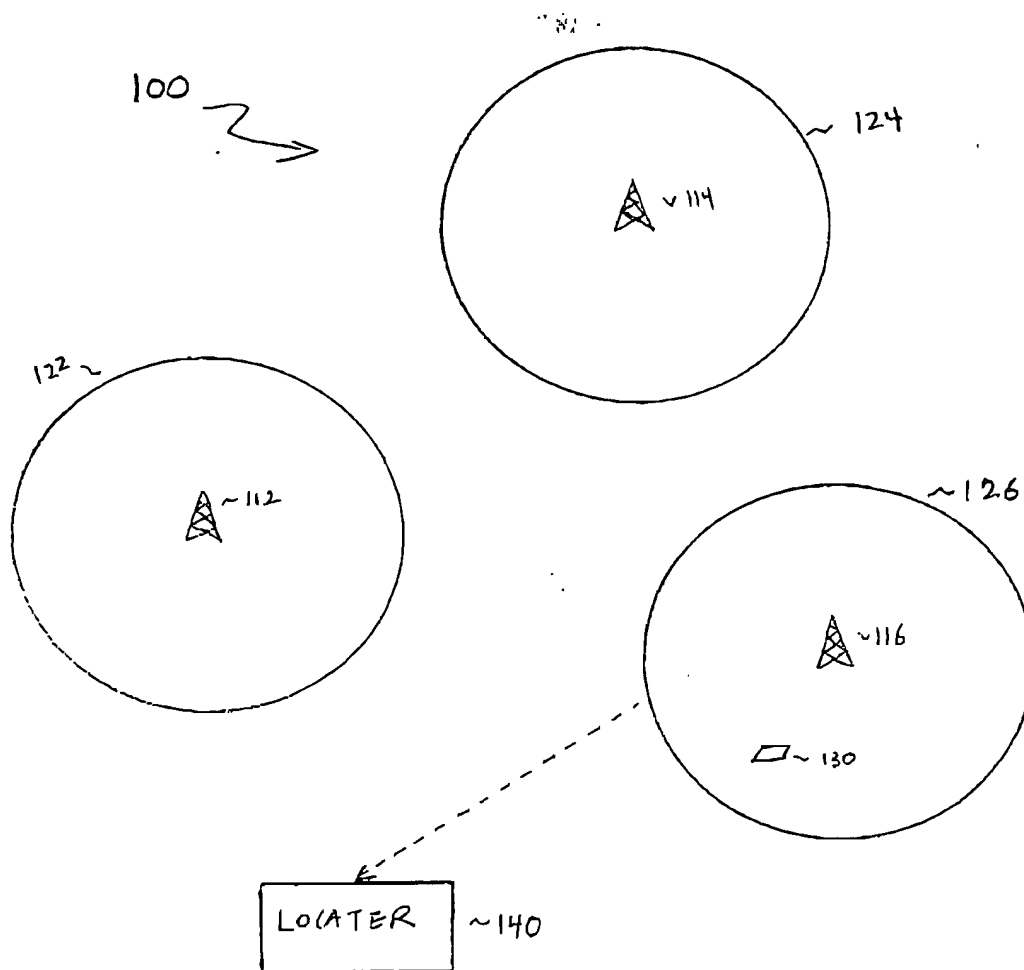


FIGURE 1

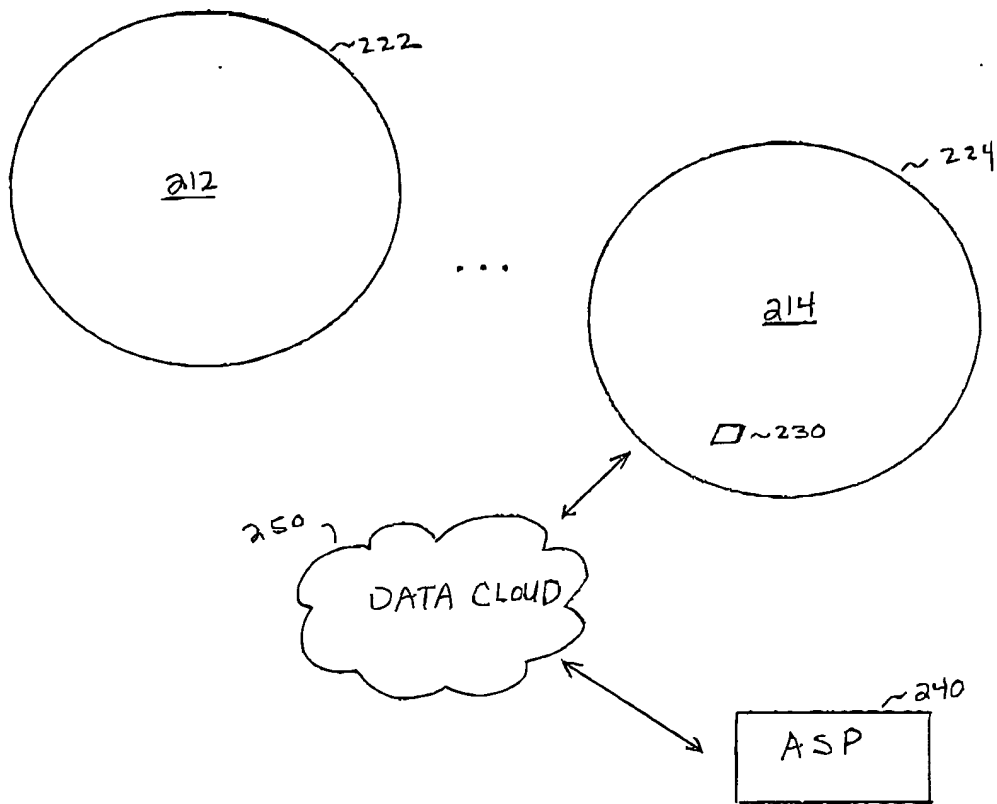


FIGURE 2

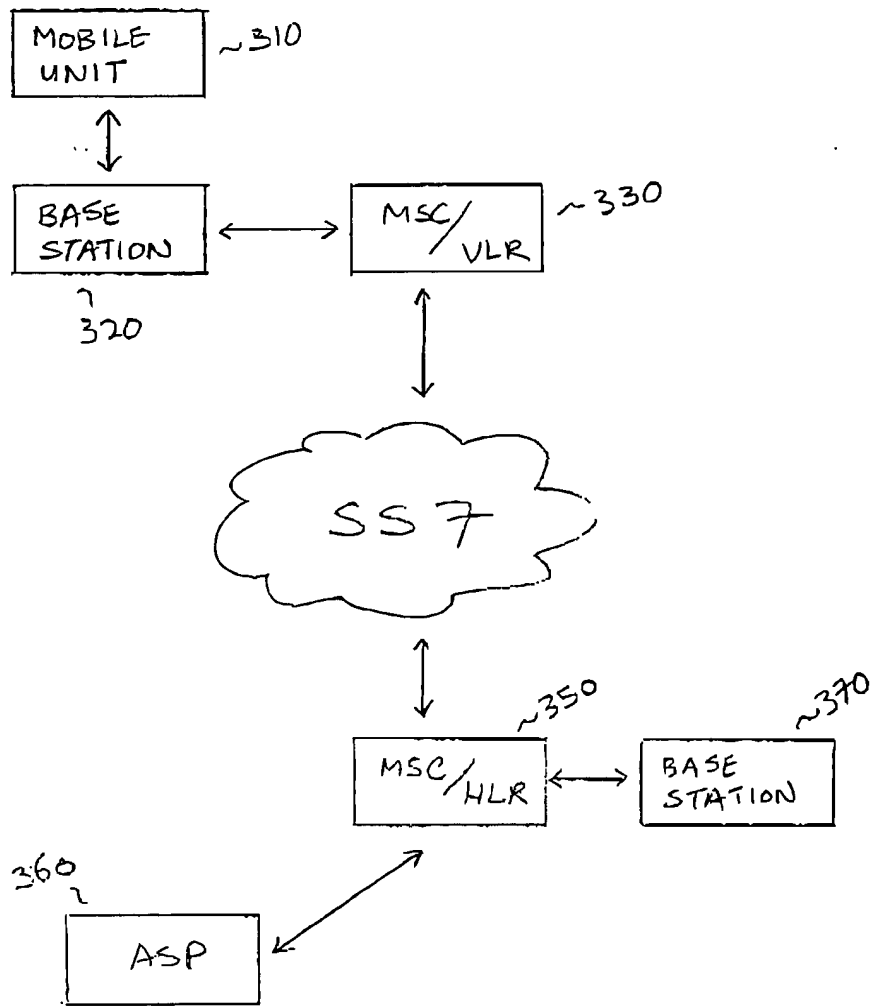


FIGURE 3

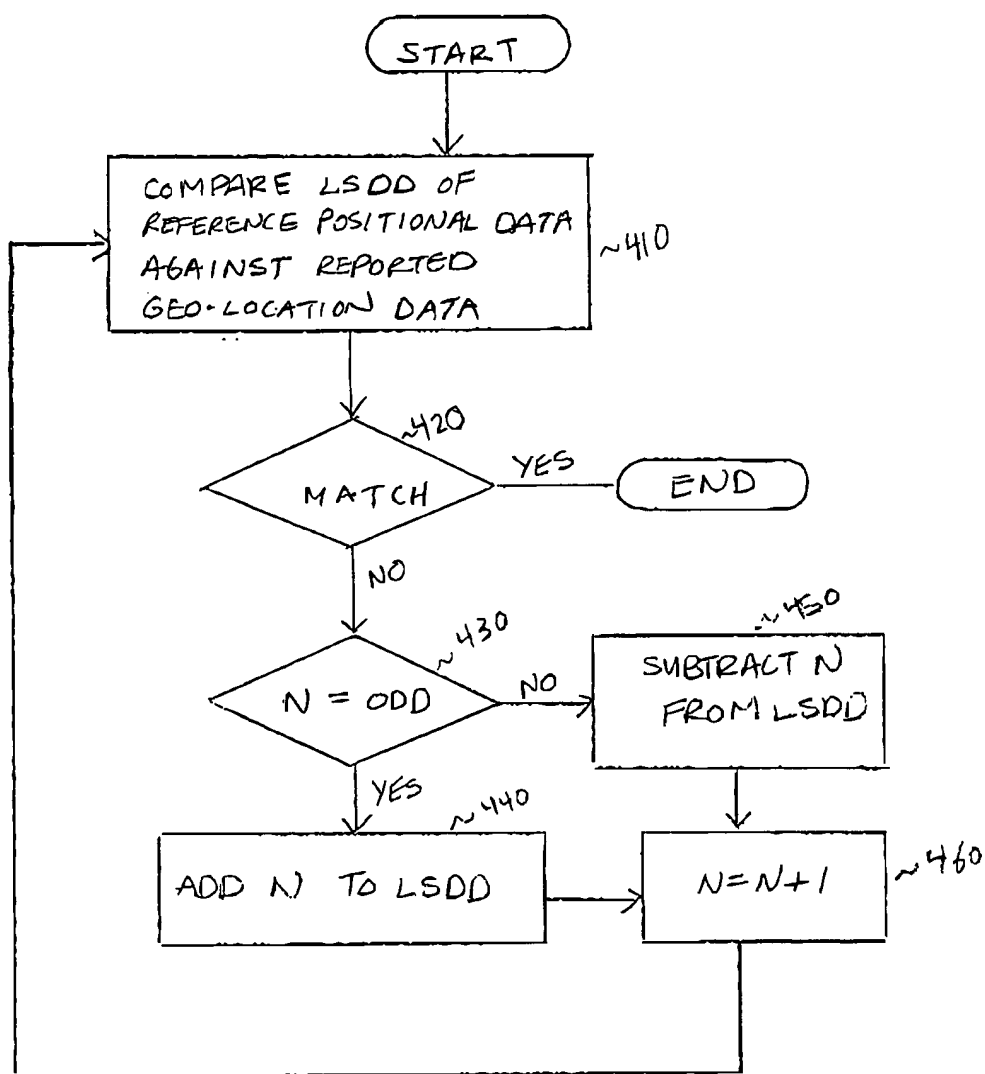


FIGURE 4

EXHIBIT C

Atty. Docket No. 004711.P006
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UNITED STATES PATENT APPLICATION

FOR

METHOD FOR GEO-LOCATION INTERPOLATION AND COMPRESSION

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Method for Geo-Location Interpolation and Compression

Field

The invention relates to a locating system and more particularly, to a geographic position communication system that allows a transmission of compressed geographic position data.

Background

Determining the geographical positions of mobile units has recently become important for a wide range of applications. For example, a locator can be used to locate a stolen car, to provide security in transport of objects and to provide direction services through which the location of, for example, the nearest gas station, restaurant, or hospital can be determined. In cellular telephones, determining the geographical position may help subscribers in events such as a car failure, accident or crime.

While the cellular telephone can facilitate voice communication in these situations, the subscriber must first have knowledge of the subscriber's location. Accordingly, many techniques are being considered and developed to provide automatic location capability. The geographical location (hereinafter "geo-location") of a mobile unit can then be transmitted to a locator for application.

However, in many applications, the cost for transmitting data depends on the amount of data passed. Therefore, transmitting the geo-location data using a limited data payload can reduce costs.

BRIEF SUMMARY OF THE INVENTION

The method and system allows a transmission of compressed geographical location data of mobile units to reduce the amount of data payload. Using a plurality of references, each having a reference positional data, a locator receives a compressed positional data of a mobile unit and determines the geographic position of the mobile unit. In one embodiment, the locator determines the geographic position by comparing the compressed position data against a reference positional data.

Also, the method and system of transmitting compressed geographical location may be implemented into an existing system or references. For example, in one embodiment, a cellular network is used in transmitting the compressed geographical location data. In one embodiment, the geographical location of a mobile is determined using the Global Position System technology.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention will be described in detail with reference to the following drawings in which like reference numerals refer to like elements wherein:

Figure 1 illustrates a geographical location communicating system in accordance to
5 the invention;

Figure 2 illustrates a cellular network in accordance to the invention;

Figure 3 illustrates a roaming mobile unit in a cellular network in accordance to the invention; and

Figure 4 illustrates a geographical location interpolation procedure in accordance to
10 one embodiment of the invention.

DETAILED DESCRIPTION

In the following description, specific details are given to provide a thorough understanding of the invention. For example, some circuits are shown in block diagram in order not to obscure the present invention in unnecessary detail. However, it will be
5 understood by those skilled in the art that the present invention may be practiced without such specific details.

As disclosed herein, the term "mobile unit" refers to any remote device such as a cellular phone, cellular telephone equipment, or a beacon. The term "mobile asset" refers to any object capable of movement, such as a motor vehicle, a boat, or a bicycle. The term
10 "transmission" refers to sending data over a communication line, and may include both wired and wireless transmission. The term "locator" refers to any positioning server including, but not limited to an Application Service Provider (ASP). Also, the term "geographical position" and "geographical location" will be used interchangeably.

Generally, transmission of less than the complete geographical position ("geo-
15 location") data of mobile units is achieved using a set of references. Here, a set of references already existing independently can be used to implement the invention. By referring to the geographical location of a reference, the complete geo-location of mobile units can be recovered from transmissions of a compressed or reduced geo-location data. Reducing the geo-location data of mobile units saves space and/or fits the positional data
20 within an allowed size of a transmitted data payload, sometimes referred to as a single data packet.

Figure 1 shows an exemplary embodiment of a geo-location communication system 100 in accordance with the invention including a plurality of references 112 ~ 116, each

respectively covering a region 122 ~ 126. Although the regions 122 ~ 126 are shown to cover an area in the shape of circles, the regions 122 ~ 126 may be in any shape including but not limited to a square, a rectangle and a hexagon. Also, the references 112 ~ 116 are stationary with fixed geo-locations to be determined and set as reference positional data.

5 A locator 140 receives a compressed geo-location data of a mobile unit 130 and a reference data corresponding to the reference 116 covering the region 126 which contains the mobile unit 130. The compressed geo-location data may be sent to the locator 140 by a wireless or wired transmission. The reference data corresponding to the reference 116 may also be sent by a wireless or wired transmission.

10 In one embodiment, the reference data may be an assigned identification (ID) code of the reference 116. For example, a unique ID code can be assigned to each reference 112 ~ 116 and stored with the corresponding reference positional data at the locator 140. Since the reference positional data for each reference may be predetermined, when a locator 140 receives an ID code with the compressed geo-location data of a mobile unit 130, the
15 reference positional data can be obtained using the ID code. In another embodiment, the reference data may be the reference positional data of a reference, in which case the reference positional data need not be stored at the locator 140. In such case, the reference positional data may also be predetermined and stored at each corresponding references. Moreover, in some applications, as will be discussed in more detail below, the reference
20 data may be a parameter that is automatically transmitted within a system as part of the normal operations.

When the reference positional data of the reference 116 is obtained using the received reference data, the locator 140 recovers the complete geo-location data of the

mobile unit 130 using the received compressed geo-location data. The particular methods to recover the complete geo-location data vary based upon the method used to compress the geo-location data. Namely, there may be many ways to compress the geo-location data of a mobile unit in accordance with the invention, one of which is to compress the geo-location data of a mobile unit by truncation based upon the differences in positions among the references.

Generally, if the positional difference between two references is approximately x number of digits, the geo-location of a mobile unit needs to be determined to the nearest x number of digits. The rest can be recovered from the reference positional data.

Accordingly, the digits left of x number of digit(s) may be truncated in the geo-location data of the mobile unit. For example, assume that a reference positional data of the reference 112 in Figure 1 is 165 in measured units, a reference positional data of the reference 116 is 173 units, and a geo-location data of the mobile unit 130 is 171. Since the positional difference between the references 112 and 116 is 8 units, the digits left of the least significant digit can be truncated. Therefore, the least significant digit of "1" is the compressed geo-location data of the mobile unit 130 and is transmitted to the locater 140. Thereafter, the complete geo-location data of the mobile unit can be recovered using the reference data.

As there may be many ways to compress the geo-location data of a mobile unit, there may also be more than one method to recover the complete geo-location data from the geo-location data compressed by truncation. In one embodiment, an iterative comparison is used to interpolate and recover the complete geo-location of mobile units. The comparison is between the truncated geo-location data of a mobile unit and the reference positional data corresponding to the reference data received. In the given example, the reference data

corresponding to the reference 116 would be received since the mobile station 130 is within the region 126 covered by the reference 116. Accordingly, the least significant digit "3" of the reference positional data 173 is compared with the truncated geo-location data of "1."

In the comparison, if there is no match, the value of the reference positional data is
5 adjusted and re-compared with the truncated geo-location data of "1" until a match is found. In one embodiment, the reference positional data is adjusted as follows, in which the reference positional data is incremented and decremented by a predetermined unit.

Assuming a predetermined unit of "1," a unit of "1" is added to the reference
positional data and the resulting least significant digit "4" of 174 is compared
10 with the truncated data of "1." No match. Subtracting "1" unit, the least
significant digit "2" of 172 is compared with "1." No match. Adding "2" units,
the least significant digit "5" of 175 is compared with "1." No match. Finally,
subtracting "2" units, the least significant digit "1" of 171 is compared with "1"
and a match is found.

15 The geo-location of the mobile unit 130 is then determined as 171 units.

Although the system and method of locating a mobile unit as described above
generates a fairly efficient and accurate result, an error checking procedure may further be
implemented to improve the accuracy of the determined geo-location. In one embodiment,
the error checking procedure checks the geo-location of a mobile unit to determine if the
20 interpolated geo-location of the mobile unit falls within the boundary of the region covered
by the reference corresponding to the reference data received. Continuing with the example
above, the interpolated geo-location of the mobile unit 130, i.e. 171 units, is checked to
determine if it falls within the boundary of the region 126 covered by the reference 116.

Since the area of the region covered by each reference can be approximated, the boundary of each region may be predetermined. In determining the boundary, the area of each region can be overestimated or underestimated to achieve a lower or higher confidence level for the error-checking procedure.

- 5 By reducing the amount of information that is transmitted to a locator, the invention can be integrated in a wide variety of systems and applications that require a transmission of geo-location data using a limited data payload.

Figure 2 shows one of many possible implementations of the invention, in which a cellular network 200 is used to transmit the compressed geo-location data of mobile units.

10 The cellular network 200 includes a plurality of cellular systems 212 ~ 214, each having an assigned system identification (SID) code and each respectively covering a region 222 ~ 224. Generally, a cellular system in which a mobile unit is registered is the home system of the mobile unit. When a mobile unit is activated, the SID of the system in which the mobile unit is operating is broadcasted as part of the normal operations in order to service the

15 mobile unit. If the mobile unit is operating outside of its home system, the mobile unit is said to be "roaming."

Figure 3 shows an example of a roaming mobile unit 310 in the cellular network 200. Messages from the mobile unit 310 are received by a base station 320 and processed by a visiting location register (VLR) of a mobile switch center (MSC) 330. The VLR 330

20 forwards a data payload, including an Electronic Serial Number (ESN) of the mobile unit 310, the SID and the compressed geo-location data, to a home location register (HLR) of a MSC 350 through Signaling System 7. Here, the ESN is a code assigned to uniquely identify the mobile unit 310. The HLR 350 processes and re-transmits the data to an ASP

360 to provide the service required by the mobile unit 310. Note, that if a mobile unit were operating within its home system, the SID would be known. Hence, the ESN and the compressed geo-location data may be transmitted to the HLR 350 through a base station 370. Figure 3 is an exemplary application of system and method to transmit compressed
5 geo-location data using one base station and one mobile unit, various combinations of base stations and mobile units may be used without departing from the spirit and scope of the invention.

Referring back to Figure 2, if a mobile unit 230 is activated, the SID of the system 214 and the compressed geo-location data of the mobile unit 230 would be received by an
10 ASP 240 through a data cloud 250 as described above. Moreover, the geo-location for each SID is stored at the ASP 240 as part of the system operation. Accordingly, the SID is used as the reference data and the ASP 240 can extract the geo-location data associated with the SID to be used as the reference positional data. The ASP 240 can then determine the complete geo-location data of the mobile unit 230 from the geo-location data using the
15 reference positional data.

By using the SID as the reference data, additional data for use as the reference data need not be sent in the data payload for determining the geo-location of a mobile unit. Therefore, the reference data need not be sent in the data payload. Moreover, in cellular systems, the data payload is transmitted through different channels. Control channels are
20 used to initiate a call and a voice channel is used after a call is initiated. Although any channel can be used, in one embodiment, the data payload including the compressed geo-location data is transmitted as part of the overhead using a control channel. The compressed geo-location data may also be transmitted within the ESN or within the digits dialed by a mobile unit. While the above cellular system has been described using the SID

as the references, other information can be used as such as a cell cite within a cellular system or the point code of equipments such as the HLR, the VLR or the MSC that transports the data.

Furthermore, one of many ways by which a mobile unit can determine its geo-
5 location is by using the Global Positioning System (GPS) technique. GPS is a constellation of 24 satellites that makes it possible for GPS receivers to determine their geographic location. Generally, each satellite continually broadcasts its changing position and time and a GPS receiver triangulates its geographic location by receiving bearings from three
10 satellites. The result is provided in units of latitude and longitude. Using a fourth satellite, the receiver can also determine altitude as well as the geographic position.

In one embodiment which implements the GPS in the cellular network 200 above, a mobile unit is a GPS receiver and obtains its geo-location data from the GPS in units of latitude and longitude. The latitude and longitude reported by the mobile unit each contains 1 digit of the degree portion. For instance, if the latitude is 23 degrees, the second 3 will be
15 reported and if the longitude is -117, the 7 will be reported. Digits representing the minutes of the latitude and longitude are completely reported. Thus, the ASP 360 of Figure 3 determines the most significant digit of the latitude and the 2 most significant digits of the longitude. These can be determined because the SID is also contained in the data the ASP 360 receives from the HLR 350. Based on how finite and precise the reference is, the less
20 or more digits can sometimes be interpolated.

For example, the difference in latitude across regions typically covered by a cellular system in the United States is approximately 2 degrees. Therefore, the ASP need to

determine the latitude to the nearest 10 degrees. The rest is recovered through the SID or the reference. This is the same for the longitude.

Accordingly, when a message comes in, the ASP starts with the latitude and the longitude of the reported SID, namely the reference positional data. The reported latitude,
 5 i.e. the truncated geo-location data, is checked against the least significant degree digit (LSDD) of the reference positional data. If the digits match, the reference's more significant digits are the same as the mobile unit's. Otherwise, the LSDD of the reference positional data is incremented and/or decremented in units of 1 degree until a match is found. The same process is repeated for the longitude.

10 Figure 4 shows one embodiment of the interpolation procedure 400 to determine the geo-location data of a mobile unit. The LSDD of the reference positional data is checked against the reported geo-location data (block 410). If there is no match, a determination is made whether the increment/decrement unit of N is odd (blocks 420 and 430). The value of N is initially set 1. If N is odd, N is added to the LSDD (block 440). Otherwise, N is
 15 subtracted from the LSDD (block 450). Thereafter, the value of N is increased by 1 (block 460) and the LSDD is checked against the reported geo-location data (block 410). If there is a match, the process ends. The more significant degree digits of the reference positional data are determined to be the same as the mobile unit's.

For example, assume an approximate location for SID number 00488 in Provo, Utah
 20 is 40 degrees 13.66 minutes North latitude and 111 degrees 39.12 minutes West longitude. A mobile unit roughly 20 miles south of Provo on Interstate 15 would report something like 9 degrees 58.30 minutes latitude and 1 degree 48.00 minutes longitude. Looking first at the longitude, the reported 1 degree matches the third 1 in 111 degrees. The ASP would then

determine that the mobile unit's longitude is 111 degrees 48 minutes West. Turning to the reference latitude of 40 degrees, 0 does not equal 9. Therefore, adding a value of 1 to the reference latitude yields 41 degrees. Since 1 does not equal 9, a value of 1 is subtracted from the original reference latitude yielding 39 degrees. Here, the LSDD of the reference
5 latitude matches 9 and the latitude of the mobile unit is determined as 39 degrees 58.30 minutes North.

In the interpolation procedure 400, the LSDD can first be decremented and then incremented to be compared against the reported geo-location data. Alternatively, the LSDD can simultaneously be incremented and also decremented, in which case an
10 incremented LSDD and a decremented LSDD would be compared against the reported geo-location data. Furthermore, if an error checking procedure has been implemented, the ASP would check whether the mobile unit falls within the region covered by the SID number 00488.

As described above, reduced geo-location data of mobile units can be transmitted to
15 a locator and recovered using reference positional data. Moreover, the system and method for transmitting the reduced geo-location data can easily be implemented using a system of references already existing, such as the cellular network. Therefore, the geo-location communication system and method in accordance with the invention can be applied in a wide range of application.

20 A tracking and communication device is one application in which the present invention can be implemented. A mobile unit can be installed in a mobile asset such as an automobile to track the vehicle's location using, for example, the GPS technology. When polled by a user, the vehicle's location may be reported using mobile unit in the form of

compressed geo-location data. Here, the cellular network can be used, as described above. For example, the mobile unit reports its geo-location when a driver activates a signal to notify a service center that the driver needs roadside assistance. Also, an alarm system can monitor the vehicle's alarm system to notify a service center that the alarm has been

5 activated and to give the geo-location. In still another embodiment, the mobile unit can actively broadcast its geo-location in predetermined intervals without being polled by a user.

While several examples uses and implementation of the invention have been described, it will be understood by one of ordinary skill in the art that the invention is not

10 limited to these uses. For example, the present invention can be used for locating the position of mobile units in air and/or sea. Therefore, the foregoing embodiments are merely exemplary and are not to be construed as limiting the present invention. The present teachings can be readily applied to other types of apparatuses. The description of the present invention is intended to be illustrative, and not to limit the scope of the claims.

15 Many alternatives, modifications, and variations will be apparent to those skilled in the art.

CLAIMS

What is claimed is:

- 1 1. A geographical location communication system comprising:
2 a plurality of references, each having reference positional data;
3 a mobile unit within a region covered by a reference, the mobile unit capable of
4 determining the geographical location (geo-location) of the mobile unit; and
5 a locator to receive compressed geo-location data of the mobile unit and to
6 determine the geo-location of the mobile unit by comparing the compressed geo-location
7 data against the reference positional data of the reference covering said region.
- 1 2. A system of claim 1, wherein the mobile unit determines the geo-location
2 using a Global Position System.
- 1 3. A system of claim 1, wherein the compressed geo-location data is in units of
2 latitude and longitude.
- 1 4. A system of claim 3, wherein the compressed geo-location data includes at
2 most one least significant degree digit of the latitude and at most two least significant
3 degree digits of the longitude.
- 1 5. A system of claim 4, wherein the locator determines the most significant
2 degree digit of the latitude and at least the most significant degree digit of the longitude.
- 1 6. A method for communicating geographical location comprising:

EXHIBIT D



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** FOREIGN APPLICATIONS *****					
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Foreign Priority claimed <input type="checkbox"/> yes <input type="checkbox"/> no 35 USC 119 (a-d) conditions met <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance Verified and Acknowledged _____ Examiner's Signature _____ Initials _____		STATE OR COUNTRY CA	SHEETS DRAWING 4	TOTAL CLAIMS 28	INDEPENDENT CLAIMS 5
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TITLE Method for geo-location interpolation and compression					
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